

2019-20

QUALITY CONTROL TEST REPORTS

Name of the Client: Executive Engineer, RR Nagar Division, BBMP, Bangalore.

Agency: Executive Engineer-3, KRIDL, Bangalore.

Name of the Work : Providing LED Street lights in HMT Layout, Brundavan Nagar, SBM Colony and other places of Ward No-17, JP park, BBMP, Bangalore.

PROJECT MANAGEMENT CONSULTANTS

M/s. S.V. Civil Engineering Consultants

(Third Party Inspection, PMC Material Testing Laboratory)
An ISO 9001: 2015 Certified Company

#518, 11th Cross, West Chord Road, Mahalakshampuram, Bangalore – 560086

Job No.: SVCEC/BBMP/KRIDL/W.No.17/2019-20

Date: 23.09.2019

TEST REPORT

CLIENT	:	Executive Engineer, RR Nagar Division, BBMP, Bangalore.
AGENCY	:	Executive Engineer-3, KRIDL, Bangalore.
NAME OF THE WORK	:	Providing LED Street lights in HMT Layout, Brundavan Nagar, SBM Colony and other places of Ward No-17, JP park, BBMP, Bangalore.
SAMPLE ID	:	Cement (ACC OPC 53 Grade)
DATE OF MANUFACTURING	:	August- 2019
DATE OF TESTING	:	21.09.2019 to 23.09.2019
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	430 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.0 %	-

Note:

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Job No.:

SVCEC/BBMP/KRIDL/W.No.17/2019-20

Date : 23.09.2019

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : Executive Engineer, RR Nagar Division, BBMP, Bangalore.

Agency : Executive Engineer-3, KRIDL, Bangalore.

Name of Work : Providing LED Street lights in HMT Layout, Brundavan Nagar, SBM Colony and other places of Ward No-17, JP park, BBMP, Bangalore.

Date of Testing : 23.09.2019

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	54	5.40	5.40	94.6	90-100
2.36	141	14.10	19.50	80.5	75-100
1.18	135	13.50	33.00	67.0	55-90
600 Micron	183	18.30	51.30	48.7	35-59
300 Micron	306	30.60	81.90	18.1	8-30
150 Micron	152	15.20	97.10	2.9	0-10

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Job No.:

SVCEC/BBMP/KRIDL/W.No.17/2019-20

Date : 23.09.2019

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : Executive Engineer, RR Nagar Division, BBMP, Bangalore.

Agency : Executive Engineer-3, KRIDL, Bangalore.

Name of Work : Providing LED Street lights in HMT Layout, Brundavan Nagar, SBM Colony and other places of Ward No-17, JP park, BBMP, Bangalore.

Date of Testing : 23.09.2019

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	141	0.94	0.94	99.06	95-100
20	7762	51.75	52.69	47.31	30-70
10	3126	20.84	73.53	26.47	10-35
4.75	3379	22.53	96.05	3.95	0-5

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Date : 23.09.2019

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : Executive Engineer, RR Nagar Division, BBMP, Bangalore.

Agency : Executive Engineer-3, KRIDL, Bangalore.

Name of Work : Providing LED Street lights in HMT Layout, Brundavan Nagar, SBM Colony and other places of Ward No-17, JP park, BBMP, Bangalore.

Date of Testing : 23.09.2019

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	163	3.3	3.3	96.7	95-100
10	2741	54.8	58.1	41.9	25-55
4.75	1746	34.9	93.0	7.0	0-10

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Job No.: SVCEC/BBMP/KRIDL/W.No.17/2019-20

05.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, Kengeri Division, BBMP, Bangalore.
Agency : Executive Engineer, KRIDL, Bangalore.
Name of the work : Providing LED Street lights in HMT Layout, Brundavan Nagar, SBM Colony and other places of Ward No-17, JP park, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	28.09.2019	05.09.2019	8.156	321.5	14.29
2	28.09.2019	05.09.2019	8.195	340.2	15.12
3	28.09.2019	05.09.2019	8.174	333.1	14.80

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Job No.: SVCEC/BBMP/KRIDL/W.No.17/2019-20

26.10.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, Kengeri Division, BBMP, Bangalore.
Agency : Executive Engineer, KRIDL, Bangalore.
Name of the work : Providing LED Street lights in HMT Layout, Brundavan Nagar, SBM Colony and other places of Ward No-17, JP park, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	28.09.2019	26.10.2019	8.236	491.2	21.83
2	28.09.2019	26.10.2019	8.241	504.3	22.41
3	28.09.2019	26.10.2019	8.222	513.6	22.83

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	28.09.2019	05.09.2019	8.163	345.6	15.36
2	28.09.2019	05.09.2019	8.174	336.4	14.95
3	28.09.2019	05.09.2019	8.182	353.2	15.70

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Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	28.09.2019	26.10.2019	8.225	503.4	22.37
2	28.09.2019	26.10.2019	8.239	518.6	23.05
3	28.09.2019	26.10.2019	8.212	491.3	21.84

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